PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP. 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121-2133	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1) Date of mailing (day/month/year) Date of mailing (day/month/year)
April 2	(day/month/year)
Applicant's or agent's file reference UCSD1690-1WO	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/29880	International filing date (day/month/year) 10 September 2004 (10.09.2004)
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	
have been established and are transmitted herewith.	ch report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clair	· · · · · · · · · · · · · · · · · · ·
When? The time limit for filing such amendments is a search report.	normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.:	, 34 chemin des Colombettes +41 22 740 14 35
For more detailed instructions, see the notes on the ac	ccompanying sheet.
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the	h report will be established and that the declaration under e International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) addit	
the protest together with the decision thereon has bee request to forward the texts of both the protest and the	an transmitted to the International Bureau together with the applicant's
no decision has been made yet on the protest; the app	
4. Reminders	
Bureau. If the applicant wishes to avoid or postpone publication.	e, the international application will be published by the International a notice of withdrawal of the international application, or of the priority 10bis.1 and 90bis.3, respectively, before the completion of the technical
International Bureau. The International Bureau will send a cop-	the written opinion of the International Searching Authority to the y of such comments to all designated Offices unless an international These comments would also be made available to the public but not
examination must be filed if the applicant wishes to postpone the	of some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date (in 0 months from the priority date, perform the prescribed acts for entry
In respect of other designated Offices, the time limit of 30 months	(or later) will apply even if no demand is filed within 19 months.
	pplicable time limits, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	James Wilson ELL, PESELEL Telephone No. (571) 272-1600

Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference UCSD1690-1WO		Form PCT/ISA/220 re applicable, item 5 below.
International application No. PCT/US04/29880	International filing date (day/month/year) 10 September 2004 (10.09.2004)	(Earliest) Priority Date (day/month/year) 12 September 2003 (12.09.2003)
Applicant THE REGENTS OF THE UNIVERSITY	OF CALIFORNIA	
This international search report consists It is also accompanied 1. Basis of the Report a. With regard to the language, the language in which it was filed, to the international furnished to this Author b. With regard to any nucleot Certain claims were found 1. Unity of invention is lacking the text is approved as submitted to the title, the text is approved as submitted to the series of the text is approved as submitted to the series of the text is approved as submitted to the series of the text is approved as submitted to the series of the text is approved as submitted to the series of the text is approved as submitted to the series of the text is approved as submitted to the series of the text is approved as submitted to the series of the se	sheets. If by a copy of each prior art document cited is a copy of each prior art document cited is international search was carried out on the basis of a transmity (Rule 23.1(b)). If and/or amino acid sequence disclosed in the unsearchable (See Box No. II) In g (See Box No. III)	n this report. sis of the international application in the lation of the international application
6. With regard to the drawings,	nitted by the applicant. d, according to Rule 38.2(b), by this Authority the date of mailing of this international searc published with the abstract is Figure No.	h report, submit comments to this Authority.
as suggested by the	applicant. Authority, because the applicant failed to sugg	ect a figure
1 1	Authority, because this figure better characteri	-
b. none of the figures is to be	published with the abstract.	
form PCT/ISA/210 (first sheet) (January 20	04)	······

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/29880

14, 15, 18.5 ational classification and IPC by classification symbols) 18.5	
e extent that such documents are included in the fields searched	
ne of data base and, where practicable, search terms used)	
	┪
appropriate, of the relevant passages Relevant to claim No.	7
988), column 2, lines 49-68 and column 1-5, 7 and 9	
See natent family anney	7
	$+$ \cdot \cdot
and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be	,
when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined	i i
with one or more other such documents, such combination being obvious to a person skilled in the art	
"&" document member of the same patent family	۶ . ۳ .
Date of mailing of the international search report	1
20 114 200	ر . <i>ا</i> ا
Authorized officer Delle Bll - too James Wilson ELLI PESELEL Telephone No. (571) 272-1600	resp
t l e	See patent family annex. See patent family annex. See patent family annex

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

From the

INTERNATIONAL SE	ARCHING AUTH	ORITY			
To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121-2133		PCT			
		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	20 JUL 2005	
Applicant's or agent's	file reference		FOR FURTHER	ACTION See paragraph 2 below	
UCSD1690-1WO International applicati	on No.	International filing date	(day/month/year)	Priority date (day/month/year)	
1					
PCT/US04/29880 International Patent C	lassification (IPC)	10 September 2004 (10.0 or both national classificat		12 September 2003 (12.09.2003)	
				127 14 15 10 5	
Applicant	CU/H 15/00 and U	S CL: 514/32, 37, 41, 459,	460; 536/13.2, 13.3,	13.7, 14, 15, 18.5	
	PLIE I BIS IEDOPES	Z OF CALIFORNIA			
THE REGENTS OF	THE UNIVERSIT	OF CALIFORNIA			
1. This opinion com	tains indications re	lating to the following item	ns:		
Box No. 1	Basis of th	e opinion			
Box No. 1	I Priority	Priority			
Box No. 1	II Non-establ	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. 1	V Lack of un	Lack of unity of invention			
Box No.		statement under Rule 43bis ty, citations and explanatio		o novelty, inventive step or industrial tatement	
Box No.	VI Certain do	cuments cited			
Box No.	VII Certain de	fects in the international ap	application		
Box No.	VIII Certain ob	servations on the internation	onal application		
2. FURTHER A	CTION				
International Pre	liminary Examini than this one to be	ng Authority ("IPEA") e	xcept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an ne International Bureau under Rule 66.1bis(b) ered.	
IPEA a written r	eply together, whe	ve, considered to be a wri re appropriate, with amend expiration of 22 months fi	iments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.	
For further option	ns, see Form PCT/	ISA/220.			
3. For further detail	s, see notes to For	n PCT/ISA/220.			
Name and mailing ad		S	Authorized office	"Valence Bell-Harris	
Mail Stop PC Commissions	T, Attn: ISA/US		James Wilson	ELL, PESELEL	
P.O. Box 145	0			Ger	
Alexandria, V Facsimile No. (703) 3	/irginia 22313-1450 05-3230		Telephone No.	571)272-1600	
Form PCT/ISA/237 (co		(2004)	-1		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/29880

Box No.	I Basis of this opinion
1. With re was file	gard to the language, this opinion has been established on the basis of the international application in the language in which it ed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With re inventi	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, this opinion has been established on the basis of:
a.	type of material
İ	a sequence listing
į	table(s) related to the sequence listing
b.	format of material
1	in written format
	in computer readable form
c,	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
İ	furnished subsequently to this Authority for the purposes of search.
	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
Additio	nal comments:
	\cdot
orm PCT/I	SA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/29880

applicability; citations and expl			
. Statement			
Novelty (N)	Claims	6, 8 and 10-30	YI
	Claims	1-5, 7 and 9	N(
Inventive step (IS)	Claims	6, 8 and 10-30	YI
		1-5, 7 and 9	N(
Industrial applicability (IA)	Claims	1-30	YI
		NONE	N(
Citations and explanations:			
laims 1-5, 7 and 9 lack novelty under PCT Article sclose the claimed compounds in column 2, lines	33(2) as being a	unticipated by Jobe et al (U.S. Pate	ent No. 4,749,800). Jobe et al
laims 6, 8 and 10-30 meet the criteria set out in PC aimed compositions and methods.	CI Article 33(2)	-(3), because the prior art does not	teach or fairly suggest the
laims 1-30 meet the criteria set out in PCT Article	33(4) and thus	meet industrial apolicability becau	use the subject matter also al
made or used in industry.	35(4), und unus	moot moustrar applicating occar	ise the subject matter claimed
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NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable. Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating my impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing, the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.